Site Name	ASARCO - El Paso, TX (on site)
Location	El Paso, TX
Performing Entity	ASARCO
Contact Person/ Phone & email	Brad Wilkinson 512-239-2350 bwilkins@tceq.state.tx.us
Decree or Order	Agreed Order Docket No. 96-0212-MLM-E
2003 Budget	$464,000.00

Description of Work Subject to Reimbursement (attach SOW, EE/CA, cost analysis, copies of bids and/or equivalent documents):

ASARCO El Paso Description of Work:

1. Landfill design. Specific work includes the final engineering design of the landfill and to send out the bid and construction package (the state is requiring financial assurance before the construction of the landfill). The landfill is needed to dispose of material which is believed to be a source for groundwater contamination and to dispose of elevated metals on the surface.

2. Groundwater Bench testing and pilot test. This will include the study of an attempt to control off-site contaminated groundwater. Work may include the installation of additional monitoring wells, recovery wells, and groundwater pumps. Also, ASARCO will need to monitor and study the effectiveness of the groundwater pumping. ASARCO will coordinate with the International Boundary Water Commission (IBWC) in the construction of the American Canal which is adjacent to ASARCO.

3. Asphalt Cap development. The state of Texas has already approved the asphalt cap with specific physical properties. ASARCO is developing an alternate asphalt matrix which includes slag material. The alternate asphalt matrix would need to meet specific physical properties before it is applied.

4. Workplan, comprehensive schedule, and Area of Contamination (AOC). ASARCO will review all the information collected for data gaps and to propose any other necessary remedial action. Develop procedures and timeframes for the propose AOC which is needed for the construction of the landfill.

5. Sampling and Analytical. ASARCO has obligations to sample the groundwater and soils at the El Paso facility to define the extent and develop any trends in the sample data.

ASARCO EL PASO ON SITE.WPD

Site Name	El Paso County Metal
Location	El Paso, El Paso County, TX
Performing Entity	EPA
Contact Person/ Phone & email	Charles Fisher (214) 665-2224 Fisher.Charles @epa.gov
Decree or Order	Action Memo *Time Critical Removal Action at El Paso County Metals Site, El Paso, El Paso County, Texas*
2003 Budget	$1.0 M

Description of Work Subject to Reimbursement (attach SOW, EE/CA, cost analysis, copies of bids and/or equivalent documents):

This project will be a continuation of the removal action at the El Paso County Metal site, which is located in El Paso, El Paso County, Texas. Soil contaminated with arsenic and lead are being removed from residential properties. These additional funds will be used to continue removing soil from residential properties. The removal action began on November 13, 2002, and sixty residential properties have had the soil removed, disposed in a approved landfill, and restored as of March 28, 2003. The EPA has received further funding to cleanup an additional 110 properties. There are approximately 1,050 properties that may have to have removal activities performed. These properties have exceeded the 24 ppm screening level for arsenic or 500 ppm screening level for lead. Some of the properties have limited grass or decorative rock cover so that the potential for exposure is great. The Texas Department Health (TDH) has determine that exposure to lead and arsenic at some of these residential properties could pose an unacceptable public health hazard to children. The $1,000,000 is needed to cleanup additional properties in the 2003 time frame. Also, the soil removal project will be ongoing into 2004.

In accordance with Sections 300.415(b)(2)(i) and 300.415(b)(2)(iv) of the NCP, the EPA has determined that there exists the potential for exposure of human populations to hazardous substances through direct contact with soil contaminated with lead and/or arsenic. Lead and arsenic constitute hazardous substances as defined at Section 101(14) of CERCLA, 42 U.S.C. § 9601(14), and further listed at 40 C.F.R § 302.4.

Exposure to lead is particularly dangerous to unborn and young children. Lead can affect virtually every system in the body and is particularly harmful to the developing brain and nervous system of fetuses and young children. Unborn children can be exposed to lead through their mothers' circulatory systems, exposure which may cause premature births, smaller babies, and decreased mental ability in the infant. Severe lead exposures in children can cause coma, convulsions, and even death. Lower levels of lead exposure can cause adverse effects on the central nervous system, kidney, and hematopoietic system. Blood lead levels as low as 10 milligrams per deciliter (ug/dL), which would not cause distinctive symptoms, are associated with decreased intelligence and impaired neurobehavioral development. Many other effects begin at low levels including decreased stature or growth, decreased hearing acuity, and decreased ability to maintain a steady posture.

In adults, lead exposure may decrease reaction time and possibly affect the memory. Lead exposure may also cause weakness in fingers, wrists, or ankles. Finally, lead exposure may cause high blood pressure, anemia, brain and kidney damage, miscarriages, and damage to the male reproductive system.

Arsenic primarily enters the body through ingestion or inhalation as airborne dust. Arsenic and arsenic compounds are considered skin and lung carcinogens in humans and high levels of ingested arsenic are known to produce death. Ingestion of arsenic could also cause irritation of stomach and intestines, nerve injury, and possible liver damage. Common side effects include decreased production of red and white blood cells, abnormal heart rhythm, impaired nerve function such as feeling pins and needles sensation in hands. Studies in animals indicate those doses of arsenic sufficient to impact pregnant female's also cause low birth weight, fetal malformations, or death. Oral ingestion causes skin pattern changes such as warts, moles, and corns that may develop into skin cancer. Inhalation of arsenic dust may cause irritated lungs but more significantly increased lung cancer has been associated with the exposure.

Site Name	ENCYCLE (on site)
Location	Corpus Christi, Texas
Performing Entity	ASARCO
Contact Person/ Phone & email	Brad Wilkinson 512-239-2350 bwilkins@tceq.state.tx.us
Decree or Order	Civil Action No. H-99-1136 Enf ID No. 1017 Agreed Consent Decree Entered October 7, 1999
2003 Budget	$250,000.00

Description of Work Subject to Reimbursement

Encycle (ASARCO)-Corpus Christi On-Site Description of Work:

1. Additional Investigation: ENCYLE needs to define the extent of contamination at the site. The work will include mobilization of a drill rig to conduct soil borings and collect samples. The ENCYLE site has lead, arsenic, zinc and cadmium contamination on the site. ENCYLE has a landfill that is adjacent the Corpus Christi ship channel. Continuing the sampling will define whether the ship channel is contaminated. If contamination remedial action will need to be taken.

2. Closure of the East and West Lagoons. The consent decree directs ASARCO to close the East & West Lagoons which had received an unauthorized hazardous waste discharge. Activities include a). removal of wastes and contaminated soils in the lagoons; b). Offsite disposal of removed wastes and contaminated soils; c) Decontamination and repair of liner; d). Backfilling of excavated east lagoon; e). Inspection and repair of lagoon walls; f). Decontamination of storm water tanks; g). Preparation of closure certificate report.

3. Corrective Action for the entire facility needs to be performed. After extent has been defined ENCYLE will conduct a study of the all data and information to determine the most effective corrective action for the site. There are areas on the site which have been identified that will need some type of corrective action. Corrective action at the site may include soils remediation, paving/capping, upgrade of facility and monitoring groundwater.

ENCYCLE ON SITE WORKDES.WPD